	Annilla Alam Nia	
	Application No.	Applicant(s)
Notice of Allowability	09/812,030	LIN, RONG
	Examiner	Art Unit
	Chat C. Do	2193
The MAILING DATE of this communication apper All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with a (OR REMAINS) CLOSED in the or other appropriate communic IGHTS. This application is sub	the correspondence address is application. If not included cation will be mailed in due course. THIS
1. This communication is responsive to <u>10/20/05</u> .		
2. The allowed claim(s) is/are <u>4-26,28-45 and 58-60</u> .		
 3. ☐ Acknowledgment is made of a claim for foreign priority unall All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 		(f) .
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. Notice of References Cited (PTO-892)	5. □ Notice of Infor	mal Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Sum	
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Ma	ail Date nendment/Comment
Paper No./Mail Date	-	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		atement of Reasons for Allowance
	9. Other	

Application/Control Number: 09/812,030 Page 2

Art Unit: 2193

REASONS FOR ALLOWANCE

1. Claims 4-26, 28-45, and 58-60 are allowed.

- 2. Claims 1-3, 27, and 46-57 are cancelled.
- 3. The following is an examiner's statement of reasons for allowance:

The prior art of records fails to disclose or render an obviousness of a shift bar circuit comprising: a restoration circuit connected to the state signal for restoring the state signal to a desired voltage level; and an encoder circuit for converting the shift level modulo sum signal into a binary sum output signal as cited in independent claims 4, 6, 12-14, 28, 38, 43, and 58. The prior art of records also fails to disclose or render an obviousness of an 8x8 shift switch parallel multiplier circuit comprising: a plurality of shift switch parallel counters compressing 6 to 2, 3 to 2, 2 to 2, and 4 to 3 as cited in an independent claim 39.

The closest found prior art is Hung et al. (U.S. 6,530,010). Hung et al. disclose a reconfigurable matrix multiplier circuit. However, Hung et al. fail to disclose either a shift bar circuit or the shift switch parallel counters as cited above.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

Application/Control Number: 09/812,030

Art Unit: 2193

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Chat C. Do whose telephone number is (571) 272-3721. The

examiner can normally be reached on 7:00AM to 5:00PM M-Th.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Chaki Kakali can be reached on (571) 272-3719. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chat C Do Examiner

Art Unit 2193

November 11, 2005

KAKALI CHAKI

RVISORY PATENT EXAMINER

Page 3

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